

MULTIMEDIA



UNIVERSITY

STUDENT ID NO

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MULTIMEDIA UNIVERSITY

FINAL EXAMINATION

TRIMESTER 2, 2015/2016

DAC5038 – COMPUTER APPLICATIONS FOR ENGINEERING

(For Diploma students only)

11 MARCH 2016
3.00 p.m - 5.00 p.m
(2 Hours)

INSTRUCTIONS TO STUDENT

1. This question paper consists of 2 pages with 4 questions only.
2. Attempt **ALL** questions. All questions carry equal marks and the distribution of the marks for each question is given.
3. Please write all your answers in the Answer Booklet provided.

Question 1 [25 Marks]

- a) List and briefly explain the **FOUR (4)** basic operations of computer. [8 marks]
- b) Pamela wants to buy a new printer because she needs to print out her assignments, notes and homework. Suggest **FOUR (4)** factors to be considered in choosing a new printer. [4 marks]
- c) List **THREE (3)** advantages of Solid-State Drive over Hard Drive storage. [3 Marks]
- d) Amar got an offer to further his study in Diploma in Engineering at Multimedia University and he plans to buy a new computer system. You as a computer expert, help Amar to make decision about which computer to buy by explaining several types of computer and their criteria's (*price, size, weight, power etc.*). [10 marks]

Question 2 [25 Marks]

- a) Briefly explain **TWO (2)** types of software that you can install on your computer and give **TWO (2)** examples each. [8 marks]
- b) Discuss on the important factors you must know before buying and installing a program to your computer system. [4 marks]
- c) Briefly explain plug and play (PnP) and give **THREE (3)** examples of PnP peripherals. [5 marks]
- d) List and explain **FOUR (4)** accessibility utilities in Windows. [8 marks]

Continued.....

Question 3 [25 Marks]

- a) Explain the operation of virtual memory in detail. [8 marks]
- b) Match each of the following terms to its definition. [9 marks]

TERM	DEFINITION
Modem	High-speed connection encompassing many types of service
RAM	Data and TV transfer can occur simultaneously
Cable	Subject to weather interference
Broadband	Data and voice transfer can occur simultaneously
DSL	Converts digital signals to analog signals and back again
ROM	Non-volatile storage
Clock Speed	Volatile storage
Satellite	Determines how fast the CPU
Hyperthreading	Simultaneous execution of more than one instruction

- c) You are planning to start off and maintain your own cyber cafe. List **FOUR (4)** main hardware components to prepare before you start configuring the network. [8 marks]

Question 4 [25 Marks]

- a) Explain on how to synchronize information between a smartphone and computer device in detail. [6 marks]
- b) Many people believe that one of the ways your identity can be stolen is from technology schemes. Identify **FIVE (5)** methods on how thieves obtain their victim's personal information through non-technological schemes. [10 marks]
- c) Mimi bought a new computer last month with an operating system installed and she has been using Google Chrome to surf websites. Until today, she has not updated any software. List **FOUR (4)** suitable actions that she has to take to secure her computer from cybercrime. [4 marks]
- d) Define Database Management System (DBMS) and list **FOUR (4)** main operations of DBMS? [5 marks]

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